

06-11-07

1636  
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CASE PA/4-32899A



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June 8, 2007  
Date of Deposit

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PCT NATIONAL STAGE APPLICATION OF

Art Unit: 1636

SUSA SPRING ET AL.

INTERNATIONAL APPLICATION NO: PCT/EP2004/003588

FILED: 5 APRIL 2004

U.S. APPLICATION NO: 10/552,319

35 USC §371 DATE: 18 OCTOBER 2005

FOR: GENE EXPRESSION ASSOCIATED WITH OSTEOBLAST  
DIFFERENTIATION

**MS: Amendment**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

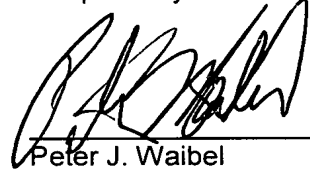
Applicants believe this paper is being filed before the mailing date of a first Office action on the merits, and so under 37 C.F.R. §1.97(b)(3) no fees are required. If a fee is deemed to be required, the Commissioner is hereby authorized to charge such fee to Deposit Account No. 19-0134.

In accordance with 37 C.F.R. §1.56, applicants wish to call the Examiner's attention to the references cited on the attached form(s) PTO-1449.

The listed references were cited in the international stage search report. Since these references are of record in the instant PCT application PCT/EP2004/003588, copies are not enclosed herewith.

The Examiner is requested to consider the foregoing information in relation to this application and indicate that each reference was considered by returning a copy of the initialed PTO 1449 form(s).

Respectfully submitted,



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Peter J. Waibel  
Attorney for Applicants  
Reg. No. 43,228

Novartis  
Corporate Intellectual Property  
One Health Plaza, Building 104  
East Hanover, NJ 07936-1080  
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Date: 6/8/07

ATTY. DOCKET NO.  
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APPLICANT  
SUSA SPRING ET AL.  
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1636

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AM						<input type="checkbox"/>	<input type="checkbox"/>
	AN						<input type="checkbox"/>	<input type="checkbox"/>
	AO						<input type="checkbox"/>	<input type="checkbox"/>
	AP						<input type="checkbox"/>	<input type="checkbox"/>
	AQ						<input type="checkbox"/>	<input type="checkbox"/>

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	AR	Kitching Richard et al., "Coordinate gene expression patterns during osteoblast maturation and retinoic acid treatment of MC3T3-E1 cells", Journal of Bone and Mineral Metabolism, Vol. 20, No. 5, pp. 269-280, (2002).
	AS	Eelen Guy et al., "The effects of 1alpha, 25-dihydroxyvitamin D3 on the expression of DNA replication genes", Journal of Bone and Mineral Research, Vol. 19, No. 1, pp. 133-146, (2004).
	AT	Cappellen David et al., "Transcriptional program of mouse osteoclast differentiation governed by the macrophage colony-stimulating factor and the ligand for the receptor activator of NFkappaB", Journal of Biological Chemistry, Vol. 277, No. 24, pp. 21971-21982, (2002).

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

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1636EXAMINER  
INITIAL

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

DA	Beck George R Jr et al., "Gene array analysis of osteoblast differentiation", Cell Growth and Differentiation, Vol. 12, No. 2, pp. 61-83, (2001).
DB	Vaes Bart L T et al., "Comprehensive microarray analysis of bone morphogenetic protein 2-induced osteoblast differentiation resulting in the identification of novel markers for bone development", Journal of Bone and Mineral Research, Vol. 17, No. 12, pp. 2106-2118, (2002).
DC	Seth Arun et al., "Coordinate expression of novel genes during osteoblast differentiation", Journal of Bone and Mineral Research, Vol. 15, No. 9, pp. 1683-1696, (2000).
DD	De Jong Diana S et al., "Identification of novel regulators associated with early-phase osteoblast differentiation", Journal of Bone and Mineral Research: The Official Journal of the American Society for Bone and Mineral Research, Vol. 19, No. 6, pp. 947-958, (2004).
DE	Tezuka Ken-Ichi et al., "Stimulation of osteoblastic cell differentiation by Notch", Journal of Bone and Mineral Research, Vol. 17, No. 2, pp. 231-239, (2002).
DF	McGall G et al., "Light-Directed Synthesis of High-Density Oligonucleotide arrays Using Semiconductor Photoresists", Proceedings of the National Academy of Sciences of USA, National Academy of Science, Vol. 93, pp. 13555-13560, (1996).
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DH	
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DN	

EXAMINER

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